3.15 Drawing Linear Graphs: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

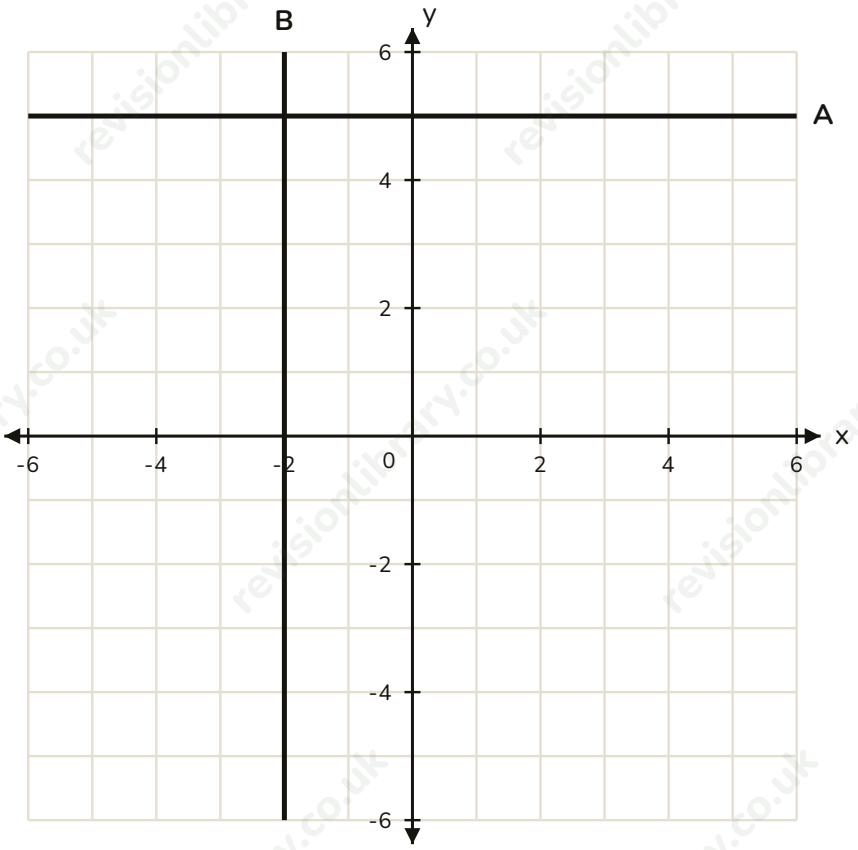
Answer ALL questions. Show all your working.

1 Work out the value of y when x = 5 for the line y = x - 2.

(Total for Question 1 is 1 mark)

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2 The diagram shows two straight lines, A and B, drawn on a grid.



(a) Line A is parallel to the x-axis and passes through the point (0, 5). Write down the equation of line A. **(1)**

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(b) Line B is parallel to the y-axis and passes through the point (-2, 0). Write down the equation of line B. **(1)**

.....

(Total for Question 2 is 2 marks)

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3 Plot the three points from the table on graph paper and draw the straight line joining them.

x: -1, 0, 2

y: -1, 1, 5

(Total for Question 3 is 2 marks)

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4 Find the gradient of the line passing through the points (1, 2) and (3, 6).

(Total for Question 4 is 2 marks)

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5 Determine whether the point (3, 7) lies on the line with equation $y = 4x - 5$. Show your working.

(Total for Question 5 is 2 marks)

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Mark scheme · 3.15 Drawing Linear Graphs: 10-minute Pack

Question 1

3 cao **B1**

Answer: 3

Question 2

(a) y = 5 cao **B1**

(a) Answer: y = 5

(b) x = -2 cao **B1**

(b) Answer: x = -2

Question 3

at least two points plotted correctly and a straight line drawn through them (oe) **M1**

all three points plotted accurately and correct straight line (cao) **A1**

Answer: Line with equation y = 2x + 1, passing through (-1,-1), (0,1), (2,5). (All three points plotted and a straight line drawn.)

Question 4

correct method: (6 - 2) / (3 - 1) or rise/run **M1**

2 cao **A1**

Answer: 2

Question 5

substitutes x = 3 into the equation: 4(3) - 5 **M1**

7 = 7 so yes, the point does lie on the line, cso **A1**

Answer: Yes, the point (3, 7) lies on the line.

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